

Response

Applicant: Daniel J. Zillig et al.

Serial No.: 10/622,973

Filed: July 18, 2003

Docket No.: M120.143.101/58067US002

Title: CLEANING WIPE AND METHOD OF MANUFACTURE

THE CLAIMS

1.(Previously Presented) A cleaning wipe comprising:

a fiber web defining opposing faces and an intermediate region between the opposing faces, wherein at least one of the opposing faces serves as a working surface for the cleaning wipe; and

a tacky material impregnated into the fiber web such that the tacky material is present at the working surface and a level of the tacky material is greater in the intermediate region than at the working surface.

2.(Original) The cleaning wipe of claim 1, wherein both of the opposing faces are working surfaces, and further wherein a level of the tacky material is greater in the intermediate region than at either of the working surfaces.

3.(Original) The cleaning wipe of claim 1, wherein an amount of tacky material per area of fiber web material is greater in the intermediate region than at the working surface.

4.(Original) The cleaning wipe of claim 1, wherein the fiber web defines a central plane midway between, and parallel to, planes defined by the opposing faces, and further wherein a ratio of tacky material:web material is greater in the central plane than at the working surface.

5.(Original) The cleaning wipe of claim 1, wherein the fiber web defines a central region midway between the opposing faces and includes at least one fiber defining first and second sections and positioned such that the first section is proximate the central region and the second section is proximate the working surface, and further wherein a coating thickness of the tacky material at the first section is greater than a coating thickness of the tacky material at the second section.

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6.(Original) The cleaning wipe of claim 1, wherein the fiber web defines a central region midway between the opposing faces and includes a plurality of randomly distributed fibers each defined by a first section that is more proximate the central region and less proximate the working face, and a second section that is more proximate the working face and less proximate the central region, and further wherein each of the fibers are coated with the tacky material such that a coated volume of the tacky material at the first section of each fiber is greater than a coated volume at the second section.

7.(Original) The cleaning wipe of claim 1, wherein the fiber web includes a center and defines a web thickness extending between the opposing faces, and further wherein the applied tacky material defines a tacky material gradient across the web thickness.

8.(Original) The cleaning wipe of claim 7, wherein the tacky material gradient is characterized by a reduced level of tacky material at the opposing surfaces as compared to the center.

9.(Original) The cleaning wipe of claim 7, wherein the tacky material gradient is characterized by an elevated quantity of tacky material at the center as compared to the opposing surfaces.

10.(Original) The cleaning wipe of claim 7, wherein the tacky material gradient is characterized by a progressive reduction in quantity of tacky material from the center to the opposing surfaces.

11.(Cancelled)

12.(Original) The cleaning wipe of claim 1, wherein the working face exhibits a Drag Value of not greater than 5 pounds.

13.(Original) The cleaning wipe of claim 12, wherein the working face exhibits a Drag Value of not greater than 2 pounds.

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14.(Original) The cleaning wipe of claim 12, wherein each of the opposing faces exhibits a Drag Value of not greater than 5 pounds.

15.(Original) The cleaning wipe of claim 12, wherein the tacky material is applied at a level of greater than 10 g/m².

16.(Original) The cleaning wipe of claim 15, wherein the tacky material is applied at a level of not less than 15 g/m².

17.(Original) The cleaning wipe of claim 1, wherein the fiber web is a nonwoven fiber web.

18.(Original) The cleaning wipe of claim 1, wherein the fiber web is a woven fiber web.

19.(Original) The cleaning wipe of claim 1, wherein the fiber web includes fibers selected from the group consisting of polyester and polypropylene fibers.

20.(Original) The cleaning wipe of claim 1, wherein the fiber web includes first and second fiber web layers.

21.(Original) The cleaning wipe of claim 20, wherein the first fiber web layer defines a first one of the opposing surfaces and the second fiber web layer defines a second one of the opposing surfaces.

22.(Original) The cleaning wipe of claim 1, wherein the tacky material is a pressure sensitive adhesive.

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23.(Original) The cleaning wipe of claim 22, wherein the pressure sensitive adhesive is a hot melt pressure sensitive adhesive.

24.(Original) The cleaning wipe of claim 22, wherein the pressure sensitive adhesive includes a material selected from the group consisting of polyacrylate and synthetic block copolymer.

25.(Previously Presented) A cleaning wipe comprising:

a fiber web defining opposing faces and an intermediate region between the opposing faces, wherein at least one of the opposing faces serves as a working surface for the cleaning wipe; and

a tacky material impregnated into the fiber web at a level of greater than 10 g/m² and such that the tacky material is present at the working surface;

wherein the working surface exhibits a Drag Value of not more than 5 pounds.

26.(Original) The cleaning wipe of claim 25, wherein the tacky material is impregnated into the fiber web at a level of not less than 15 g/m².

27.(Original) The cleaning wipe of claim 25, wherein the tacky material is impregnated into the fiber web at a level in the range of 15 – 100 g/m².

28.(Original) The cleaning wipe of claim 25, wherein the tacky material is impregnated into the fiber web at a level of not less than 20 g/m².

29.(Original) The cleaning wipe of claim 25, wherein the working surface exhibits a Drag Value of not more than 2 pounds.

30.(Original) The cleaning wipe of claim 25, wherein each of the opposing faces exhibit a Drag Value of not more than 5 pounds.

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31.(Original) The cleaning wipe of claim 30, wherein each of the opposing faces exhibit a Drag Value of not more than 2 pounds.

32.(Original) The cleaning wipe of claim 25, wherein the tacky material defines a tacky material gradient across a thickness of the fiber web, the tacky material gradient characterized by an increased level of tacky material at the intermediate region as compared to the working surface.

33.(Original) The cleaning wipe of claim 32, wherein the tacky material level is a volume of tacky material per unit area of fiber web material.

34.(Original) The cleaning wipe of claim 32, wherein the tacky material level is a weight of tacky material per unit area of fiber web material.

35.(Original) The cleaning wipe of claim 25, wherein the fiber web includes first and second fiber web layers.

36.(Original) The cleaning wipe of claim 35, wherein the first and second fiber web layers have at least one differing characteristic.

37 – 46.(Cancelled)

47.(Previously Presented) The cleaning wipe of claim 1, wherein the fiber web defines a plurality of fibers, and the tacky material coats individual ones of the plurality of fibers.

48.(Cancelled)

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49.(Previously Presented) The cleaning wipe of claim 47, wherein the intermediate region includes three portions each defining approximately one-third of a thickness of the fiber web, and further wherein each portion includes one or more of the individually coated fibers.

50.(Cancelled)

51.(Previously Presented) The cleaning wipe of claim 25, wherein a plurality of randomly distributed fibers are defined within the intermediate region and are individually coated with the tacky material.

52.(Previously Presented) The cleaning wipe of claim 51, wherein one or more of the individually coated fibers contacts the working surface.